

TITLE: ANTIBODY SPECIFIC FOR A DNA REPAIR PROTEIN  
INVENTORS NAME: John H.J. Petrini et al.  
DOCKET NO.: 800,019US4

1/13

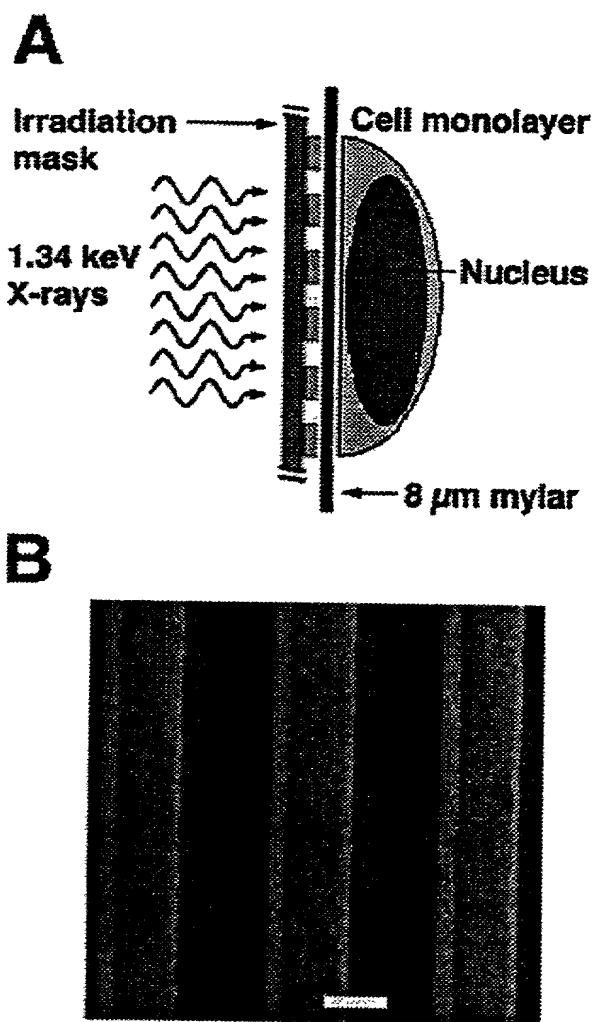


FIG. 1

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2/13

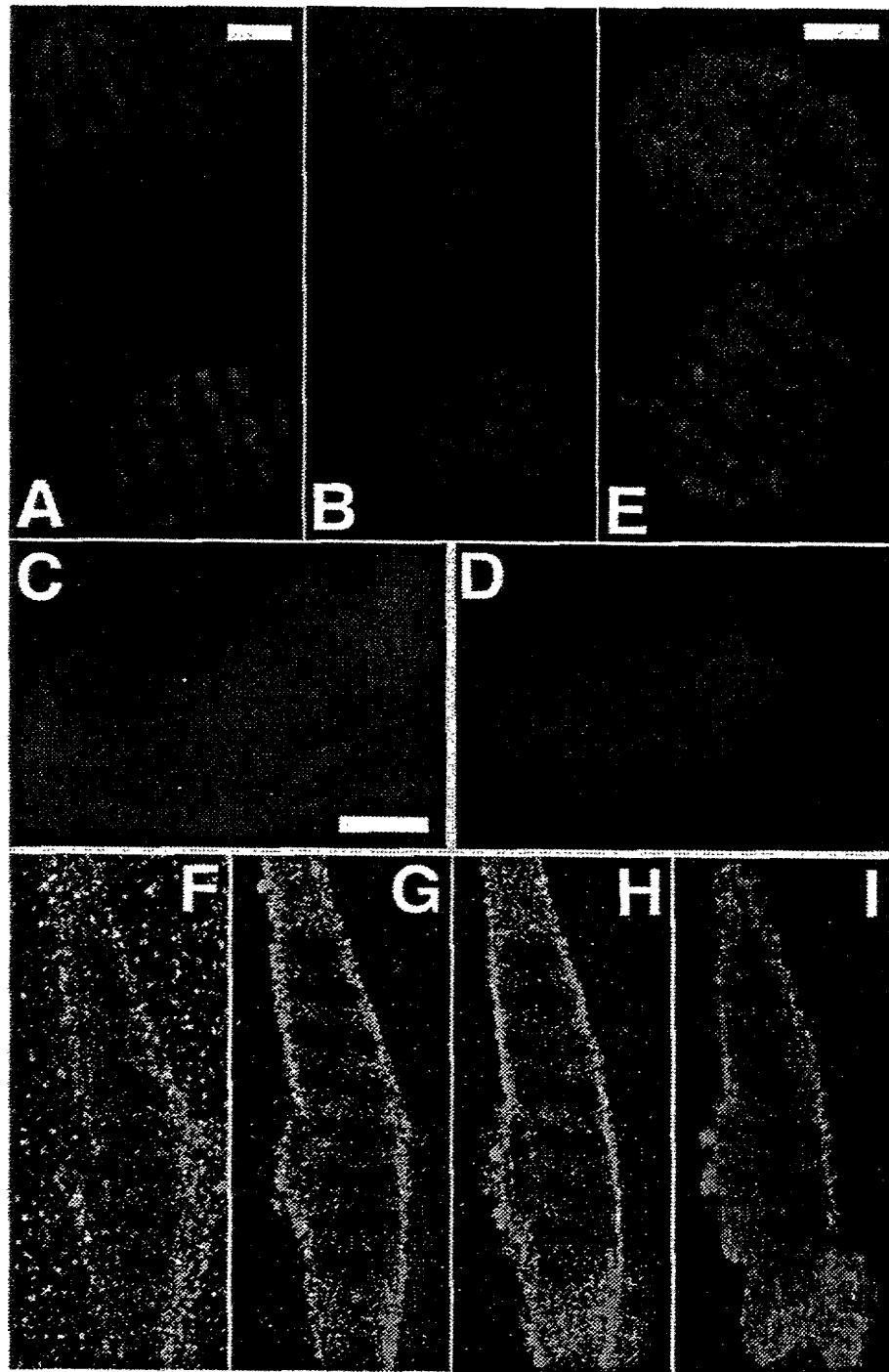


FIG. 2

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3/13

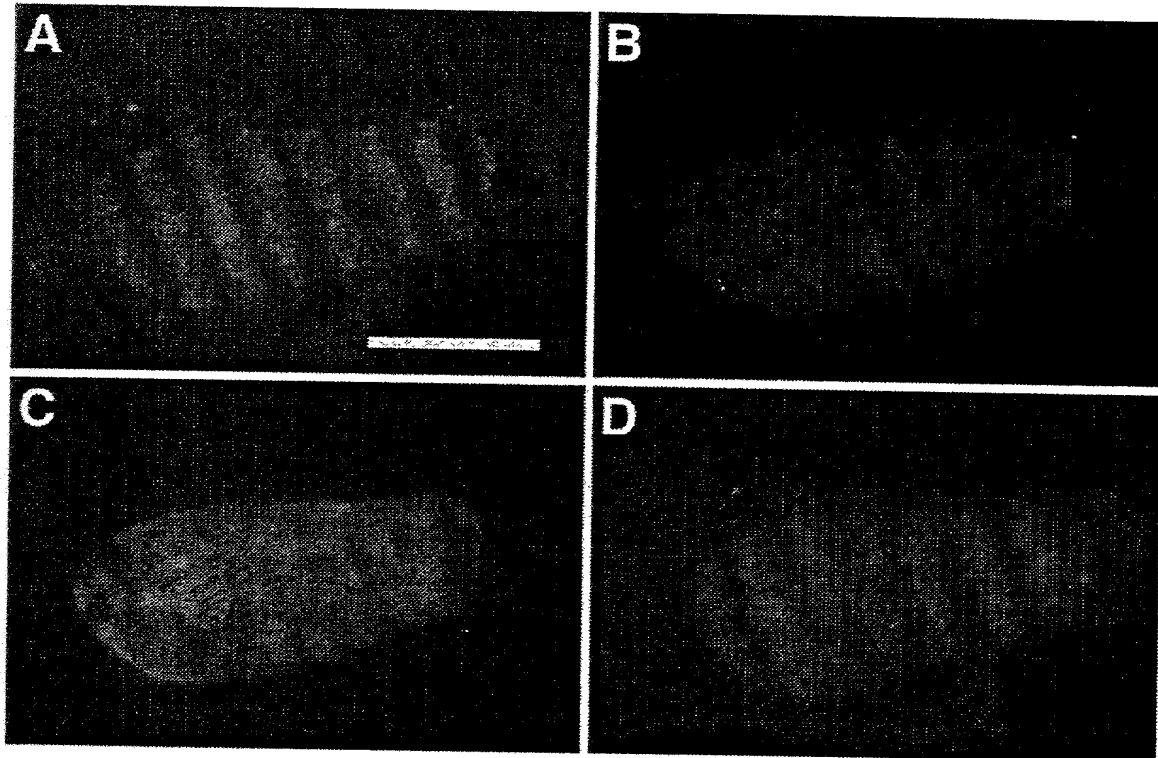


FIG. 3

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4/13

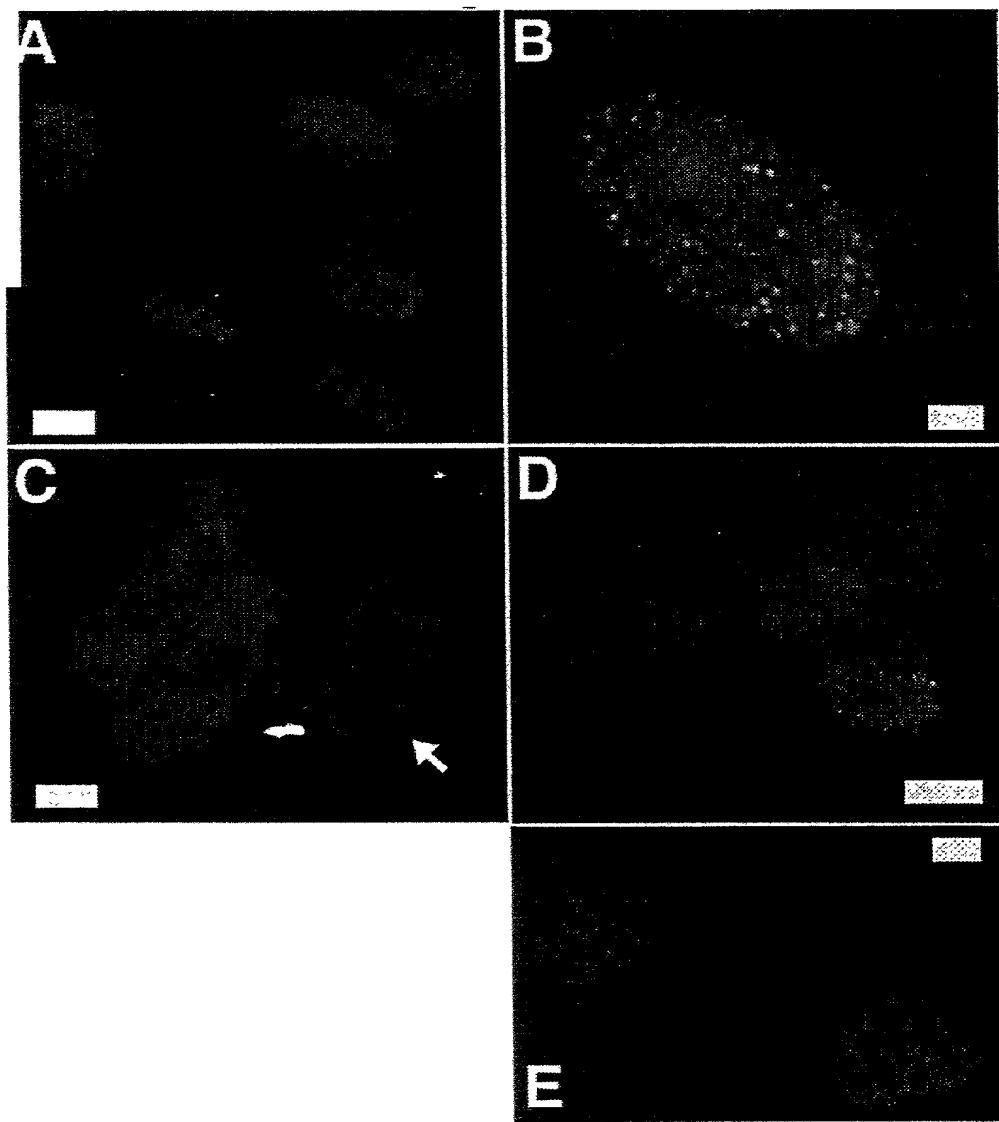


FIG. 4

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5/13

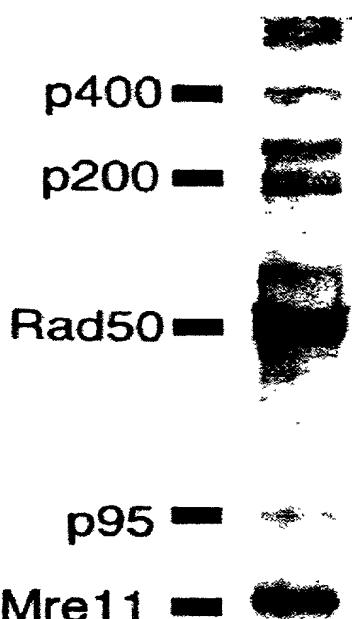


FIG. 5

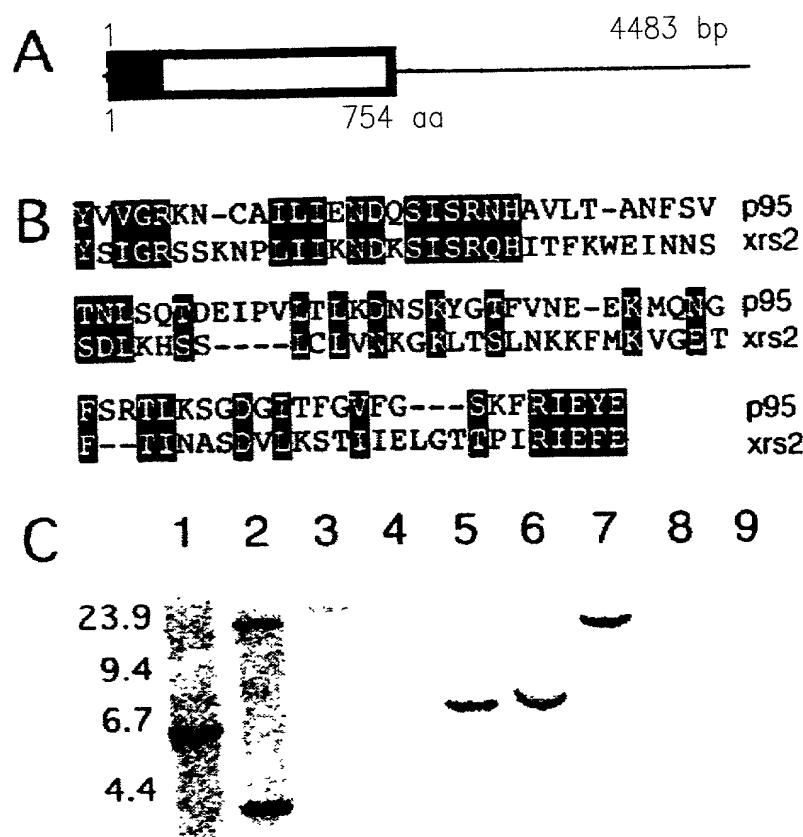


FIG. 6

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6/13

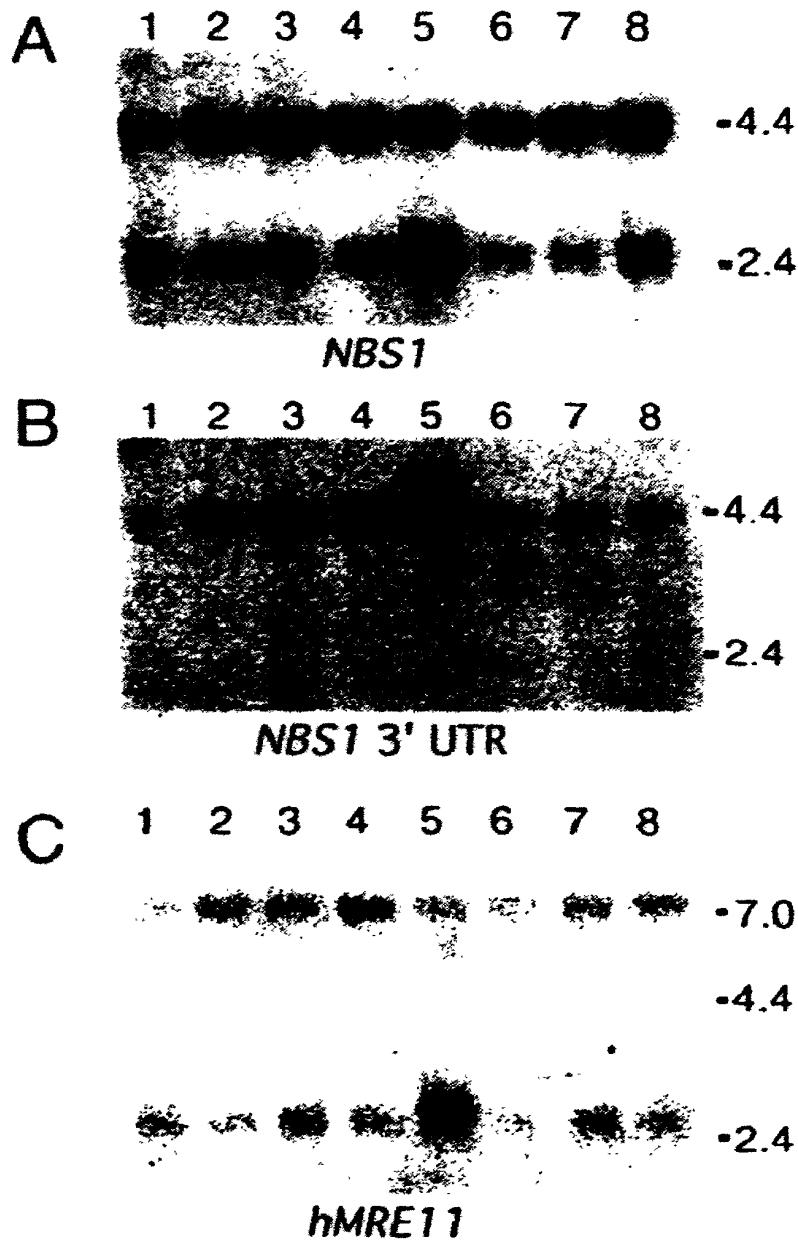


FIG. 7

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7/13

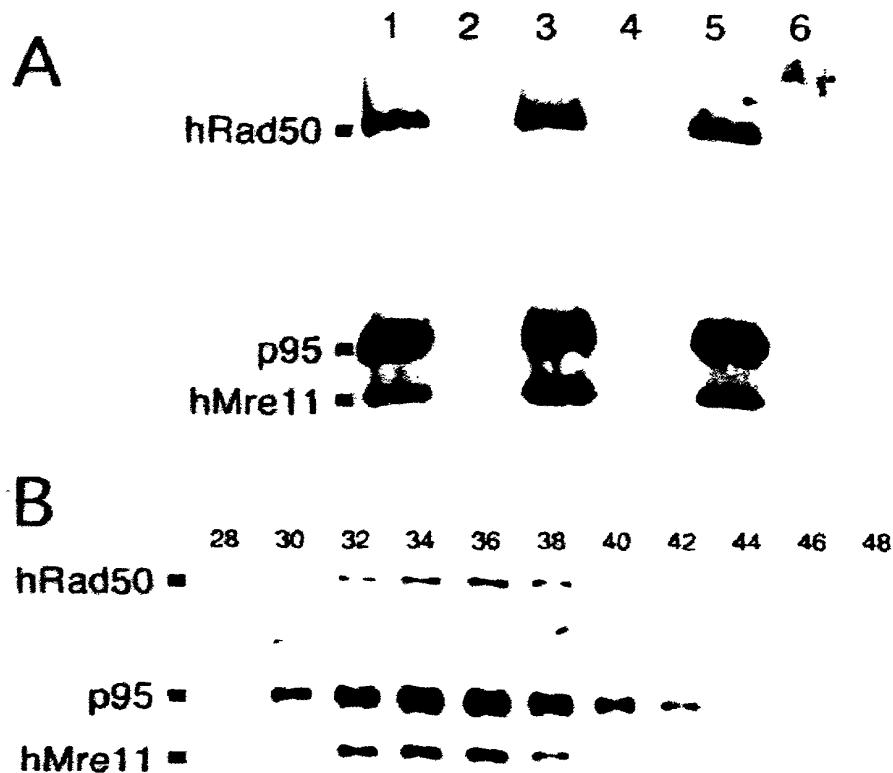


FIG. 8

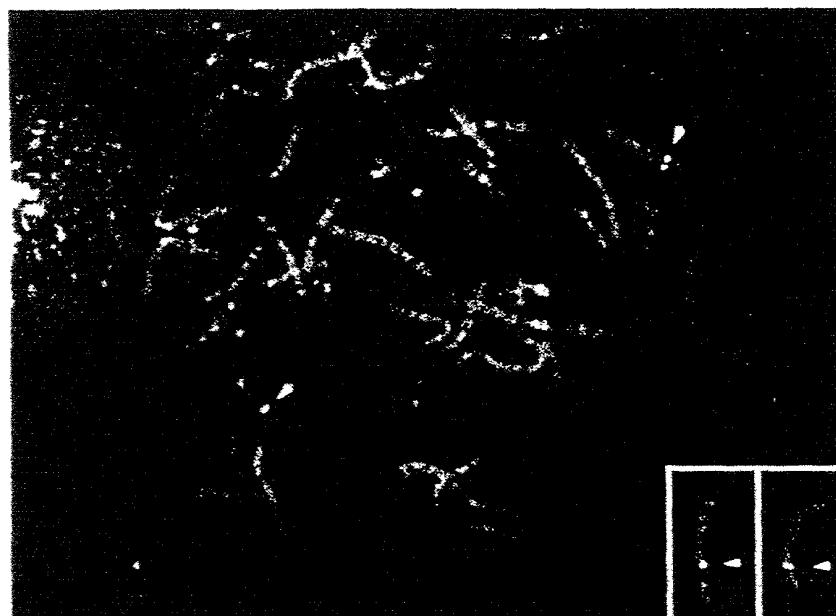


FIG. 9

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8/13

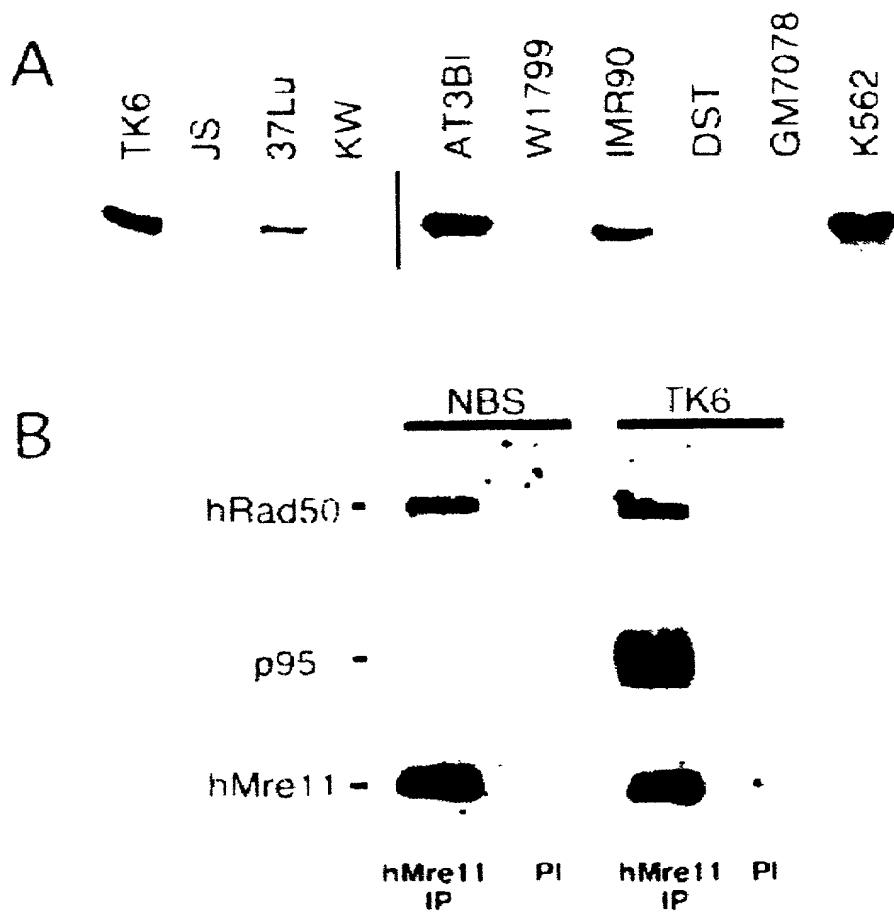
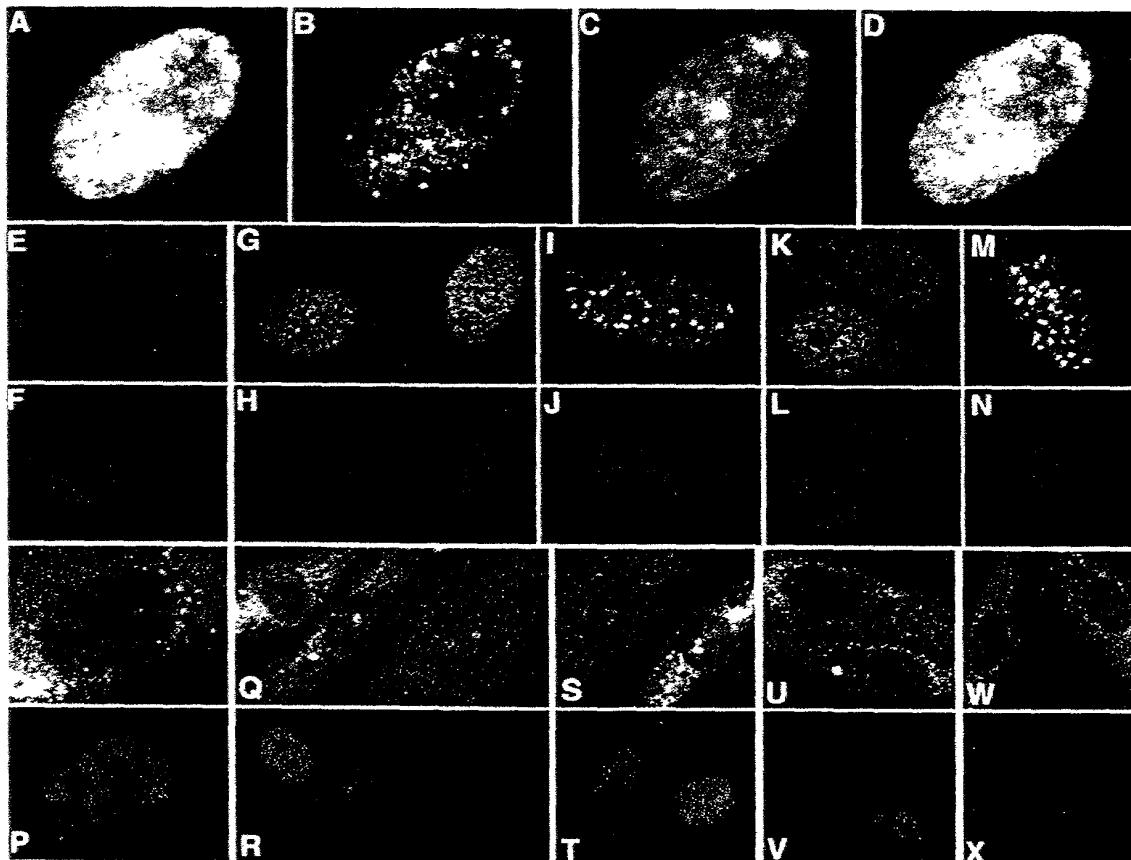


FIG. 10

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DOCKET NO.: 800.019US4

9/13



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DOCKET NO.: 800.019US4

10/13

<u>Amino Acid</u>	<u>Codon</u>
Phe	UUU, UUC
Ser	UCU, UCC, UCA, UCG, AGU, AGC
Tyr	UAU, UAC
Cys	UGU, UGC
Leu	UUA, UUG, CUU, CUC, CUA, CUG
Trp	UGG
Pro	CCU, CCC, CCA, CCG
His	CAU, CAC
Arg	CGU, CGC, CGA, CGG, AGA, AGG
Gln	CAA, CAG
Ile	AUU, AUC, AUA
Thr	ACU, ACC, ACA, ACG
Asn	AAU, AAC
Lys	AAA, AAG
Met	AUG
Val	GUU, GUC, GUA, GUG
Ala	GCU, GCC, GCA, GCG
Asp	GAU, GAC
Gly	GGU, GGC, GGA, GGG
Glu	GAA, GAG

**FIG. 12**

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DOCKET NO.: 800.019US4

11/13

Original Residue	Exemplary Substitutions	Preferred Substitutions
Ala (A)	val; leu; ile	val
Arg (R)	lys; gln; asn	lys
Asn (N)	gln; his; lys; arg	gln
Asp (D)	glu	glu
Cys (C)	ser	ser
Gln (Q)	asn	asn
Glu (E)	asp	asp
Gly (G)	pro	pro
His (H)	asn; gln; lys; arg	arg
Ile (I)	leu; val; met; ala; phe norleucine	leu
Leu (L)	norleucine; ile; val; met; ala; phe	ile
Lys (K)	arg; gln; asn	arg
Met (M)	leu; phe; ile	leu
Phe (F)	leu; val; ile; ala	leu
Pro (P)	gly	gly
Ser (S)	thr	thr
Thr (T)	ser	ser
Trp (W)	tyr	tyr
Tyr (Y)	trp; phe; thr; ser	phe
Val (V)	ile; leu; met; phe; ala; norleucine	leu

FIG. 13

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DOCKET NO.: 800.019US4

12/13

FIG. 14

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13/13

MWKLLPAAGPAGGEPYRLLTGVEVVGRKNCAILLIENDQISRNHAVLTANFSVTNLSQTDEIPVLTLDNSKYGTFVNE  
EKMQNGFSRTLKGDGITFGVFGSKFRIEYEPLVACSSCLDVSGKTALNQAILQLGGFTVNNWTEECTHLVMVSVKVTIK  
TICALICGRPTIVKPEYFTFELKAVQSKKQPPQIESFYPPDDEPSIGSKNVDLSGRQERKQIFKGKTFIFLNAKQHKKLSS  
AVVFGGGEARLITEENEEEHNFFLAPGTCVVDTGITNSQTLIPDCQKKWIQSIMDMLQROGLRPIPEAEIGLAVIFMTTK  
NYCDPQGHGSTGLKTTPGPSSLQGVSVDEKLMP SAPVNNTTYVADTESEQADTWDLSERPKEIKVSKMEQKFRMLSQDA  
PTVKESCKTSSNNNSMVSNLAKMRIPNYQLSPTKLPINSKDRASQQQQTNSIRNYFQPSTKKRERDEENQEMSSCKS  
ARIETSCSLLEQTQPATPSLWKNKEQHLSENEPVDTNSDNNLFTDTLKSIVKNSASKSHAAEKLRSNKKREMDDVAIED  
EVLEQLFKDTKPELEIDVKVQKQEEDVNVRKRPRMDIETNDTFSDEAVPESSKISQENEIGKKRELKEDSLWSAKEISNN  
DKLQDDSEMLPKKLLTEFRSLVIKNSTS RNP SGINDDY GQLKNFKKVTVYPGAGKLPHIIGGSDLIAHHARKNTELE  
EWLRQEMEVQNQHAKEESSLADDLFRYNPYLKRRR.

**FIG. 15**